

# **Water Resources at Fort Hood**

**Presented by the DPW  
Water Program**

**WATER**



# Who is in charge of water?

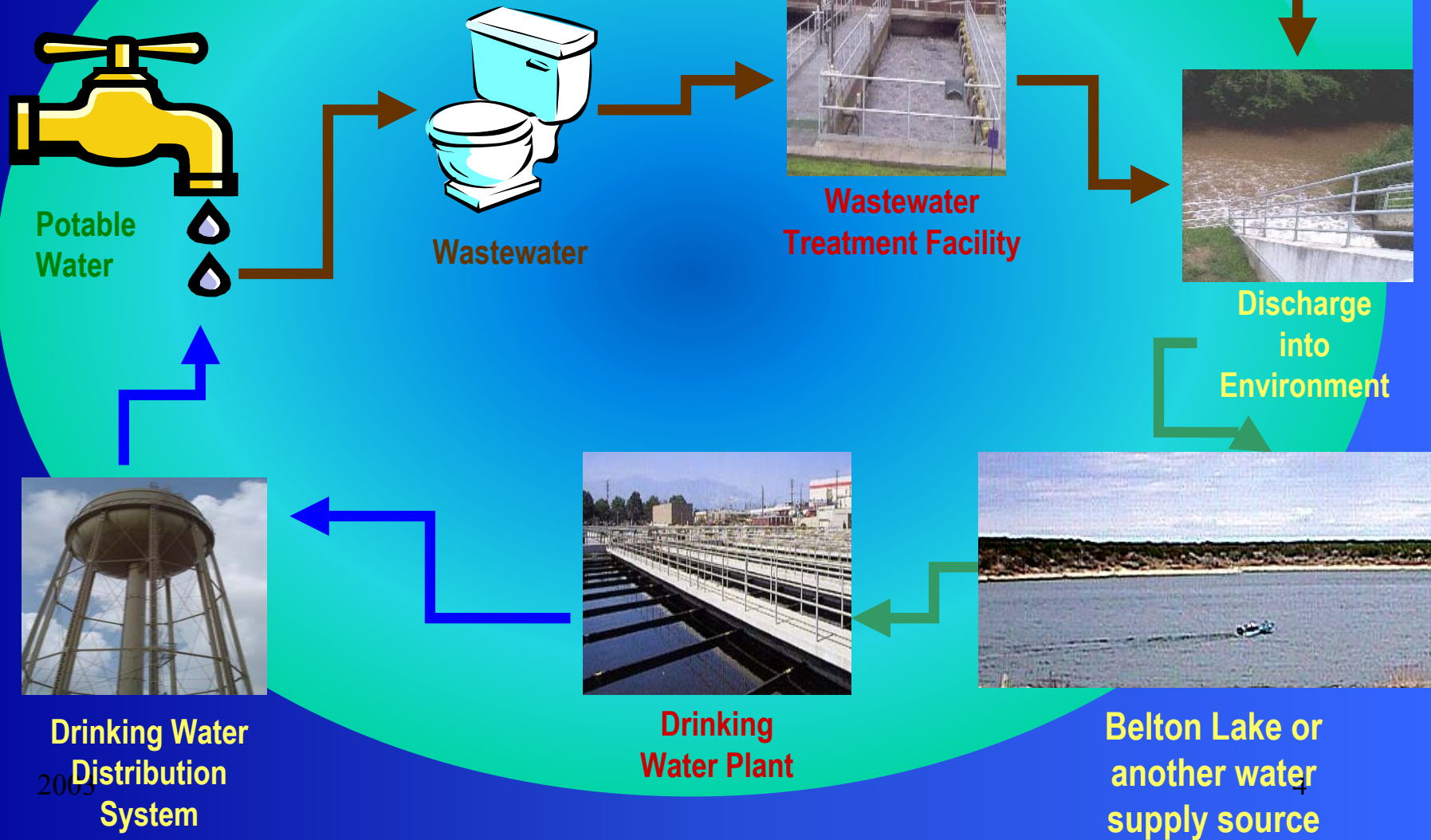
- **NATIONAL LEVEL:** Environmental Protection Agency (EPA).
- **STATE LEVEL:** Texas Commission on Environmental Quality (TCEQ).
  - Regulated by permits and state requirements.
  - Requirements met by monitoring, inspecting, training, and reporting.

# Types of water on Ft. Hood:

- Storm Water
- Drinking Water
- Wastewater



# THE WATER CYCLE



# What is storm water?

- Runoff that occurs with natural precipitation and drains to creeks/lakes **UNTREATED**
- State permit authorizes Ft. Hood to discharge storm water to surface waters in the state
- BMPs (Best Management Practices) used to meet requirements of permit



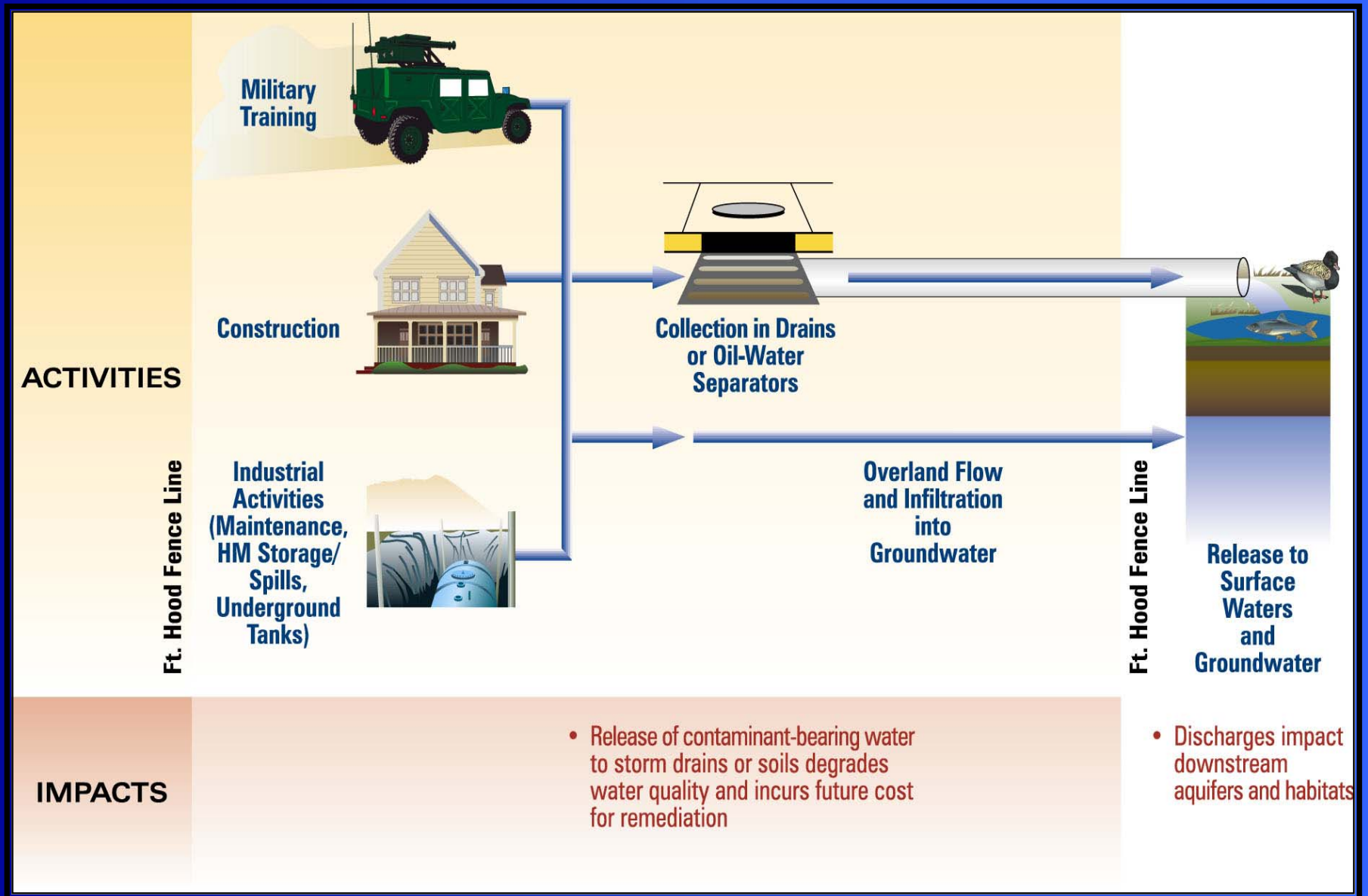
# Pollutants in storm water

- Oil and grease, antifreeze, and other vehicle fluids
- Trash and debris
- Soil and dirt
- Metals
- Pesticides and fertilizers
- **Polluted storm water can:**
  - Impair recreational water areas (i.e. Belton Lake)
  - Harm/kill fish, wildlife, and native vegetation
  - Pollute ground water and drinking water





# Path of Pollutants



# What can you do?

- STOP Illegal Dumping by:
  - Using the Used Product Reclamation Points or contact DPW Classification Unit, 288-7627, for disposal.
  - NO dumping into the OWS (Oil-Water Separator).
  - It is prohibited to dump petroleum or other hazardous products willfully on the ground, sewer system, or surface waters (CWA Sec. 309, FH Reg 420-2 Sec. 5-1).





# What can you do?

- Practice good housekeeping by:
  - Picking up trash (including OWS).
  - Using drip pans & proper PMCS.
  - Requesting timely service of OWS from DPW.
  - Containing spills away from storm water conveyances and OWS.
  - Keeping soil stockpiles away from storm water conveyances and fences.



# What can you do?

- Practice good lawn care by:
  - Obtaining Fertilizers, Herbicides/ Pesticides from HAZMART only
  - Applying each product according to manufacturers label & never before rain
  - Using herbicides/pesticides for SPOT APPLICATIONS ONLY
    - Contact DPW, Services Branch, Pest Control, 287-7294, for larger area applications
  - Keep lawn clippings away from storm water conveyances



# What can you do?

- Maintain clean vehicles by:
  - Utilizing the Central Wash Racks first; DO NOT use chemicals, detergents, or solvents.
  - Using authorized detergents for unit motor pool wash racks only, obtain from HAZMART.
  - Washing POV at a commercial car wash or where water flows to grass.



# Drinking Water





# Fort Hood Drinking Water

- Surface water from Belton Lake
- Purchase treated water from Bell County
- FH conducts routine sampling for bacteria and chlorine residual





# Water Storage at Fort Hood



- Fort Hood maintains 20 storage tanks, nine of which are elevated
- The 20 tanks have a total capacity of approximately 12,500,000 gallons

# Fort Hood Water, an Unlimited Source?



- Last year, Ft Hood averaged 6.2 million gallons of water per day
- We have reached our maximum allowable limit several times in the past

# Help Conserve Water



- Don't water the lawn during the hottest part of the day
- Don't over water the lawn. Water the lawn every 3-5 days in the summer and 10-14 days in the winter
- Don't let water run at the vehicle washracks, turn off the water when done

# What is a Cross-Connection?



When potable water has a potential for coming in contact with contaminated water it is a cross connection

A pipeline break in the area could suck this soapy water back up into the potable water supply



# Backflow Prevention

Devices used to prevent industrial water from backing up into the potable water supply are called backflow preventers





# Backflow Devices



# Cross-Connection Incident

Thousands of cross-connections occur annually. Only those that end in loss of life or serious illness do you ever hear about

- Backflow incident – Fort Hood Texas, July 2003

# Prevent Cross Connections



- Remove hoses from unprotected sinks
- Don't leave hoses laying on the ground
- Don't remove vacuum breakers from hose bibbs

# Prevent Cross Connections (cont)





# Water Leak Hotline



Report All  
Water  
Leaks!

Call DPW at  
287-2113



# What is waste water?



- Wastewater: contaminated water resulting from a known process.
- Examples:
  - Domestic sewage.
  - Water from oil-water separators.
  - Water from treatment facilities.
  - Water from industrial facilities.

# What can you do?

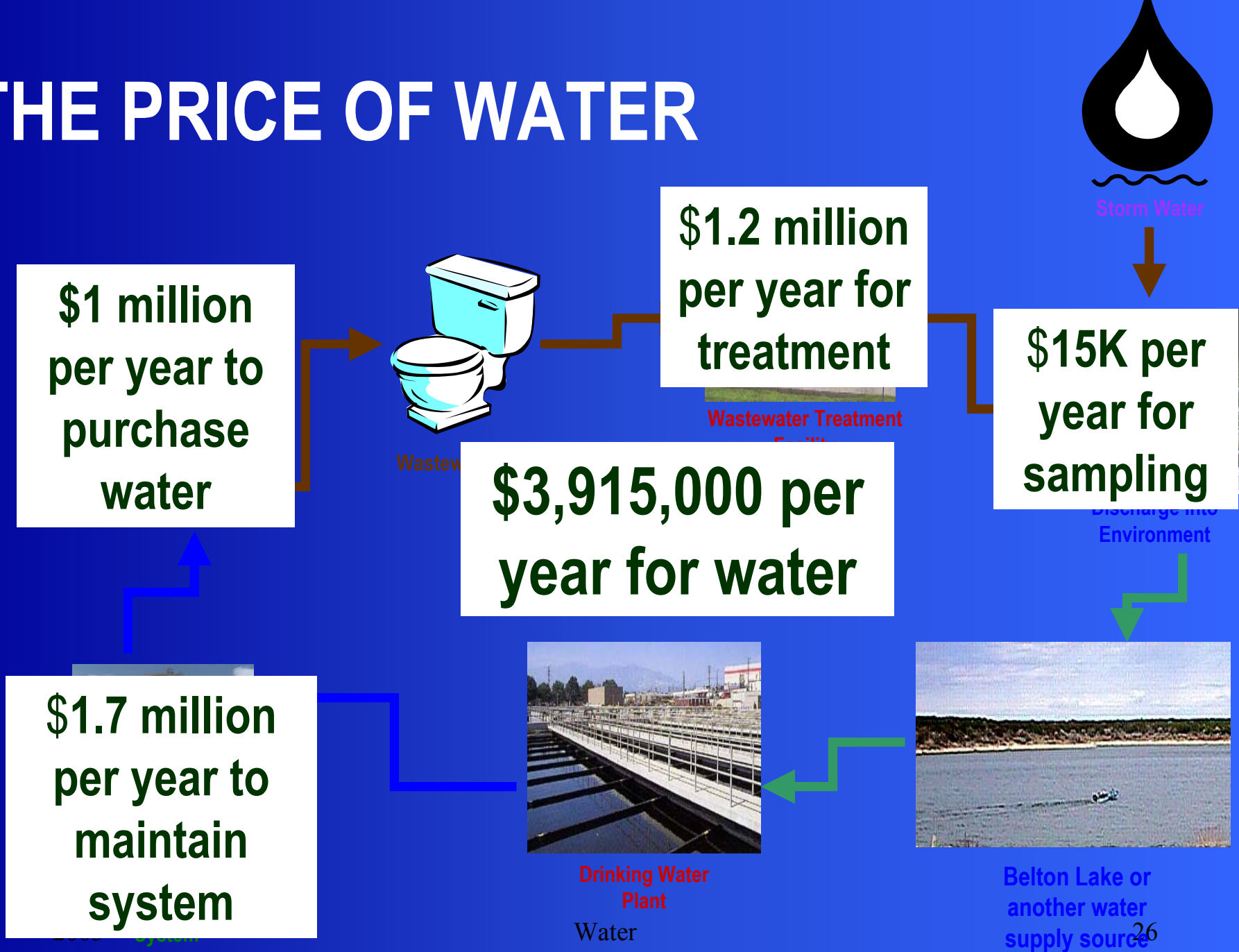


*Sanitary sewer overflow near housing area on  
Fort Hood*

- Do not dispose of grease down sinks.
- Minimize the use of garbage disposals.
- Use cleaners and harsh chemicals sparingly.
- Do not use detergents excessively.
- Dispose of all chemicals properly.
- Turn off faucets when not in use.

**Not following these steps can lead to interruptions in the wastewater treatment process and can cause sewer overflows.**

# THE PRICE OF WATER



# Questions?



- Program Manager:
  - Mr. Riki Young @ 287-8712
- Storm water:
  - Stacy Pintor @ 287-9812
  - Valorie Michna @ 618-8888
- Drinking water:
  - Gary Goodman @ 287-4256